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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application No.	10/040,971	
	Filing Date	January 4, 2002	
	First Named Inventor		
	Art Unit	2122	
	Examiner Name	Unknown	
Total Number of Pages in This Submission	3	Attorney Docket Number	42390P18985

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form  <input type="checkbox"/> Fee Attached  <input type="checkbox"/> Amendment / Response  <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> PTO/SB/08  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/Incomplete Application  <input type="checkbox"/> Basic Filing Fee <input type="checkbox"/> Declaration/POA  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition  <input type="checkbox"/> Petition to Convert a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Request for Refund  <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">Copies of 54 Cited refs Return Postcard</div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Paul A. Mendonsa, Reg. No. 42,879 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	October 7, 2004

CERTIFICATE OF MAILING/TRANSMISSION			
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Signature		Date	October 7, 2004



# FEE TRANSMITTAL for FY 2004

Effective 01/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$ ) 0.00

## Complete if Known

Application Number 10/040,971  
Filing Date January 4, 2002  
First Named Inventor  
Examiner Name Unknown  
Art Unit 2122  
Attorney Docket No. 42390PT8985

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☒ None  
☐ Deposit Account

Deposit  
Account  
Number

02-2666

Deposit  
Account  
Name

Blakely, Sokoloff, Taylor & Zafman LLP

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments  
☒ Charge any additional fee(s) or underpayment of fees as required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	790	2001	395	Utility filing fee	
1002	350	2002	175	Design filing fee	
1003	550	2003	275	Plant filing fee	
1004	790	2004	395	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ )

### 2. EXTRA CLAIM FEES

Total Claims  - 20\*\* =  X  =   
Independent Claims  - 3 =  X  =   
Multiple Dependent  =

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	88	2201	44	Independent claims in excess of 3	
1203	300	2203	150	Multiple Dependent claim, if not paid	
1204	88	2204	44	**Reissue independent claims over original patent	
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$ )

\*\*or number previously paid, if greater, For Reissues, see below

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
2053	130	2053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920 *	1804	920 *	Requesting publication of SIR prior to Examiner action	
1805	1,840 *	1805	1,840 *	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	430	2252	215	Extension for reply within second month	
1253	980	2253	490	Extension for reply within third month	
1254	1,530	2254	765	Extension for reply within fourth month	
1255	2,080	2255	1,040	Extension for reply within fifth month	
1404	340	2401	170	Notice of Appeal	
1402	340	2402	170	Filing a brief in support of an appeal	
1403	300	2403	150	Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,370	2453	685	Petition to revive - unintentional	
1501	1,370	2501	685	Utility issue fee (or reissue)	
1502	490	2502	245	Design issue fee	
1503	660	2503	330	Plant issue fee	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	1809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify) _____ No Fee _____					0.00
SUBTOTAL (3)					(\$ ) 0.00

\* Reduced by Basic Filing Fee Paid

## SUBMITTED BY

Name (Print/Type) Paul A. Mendonsa

Registration No. 42,879  
(Attorney/Agent)

Signature

*Paul A. Mendonsa*

## Complete (if applicable)

Telephone (503) 439-8778

Date 10/07/04



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re the Application of:

Application No.: 10/040,971

Filed: January 4, 2002

For: **COORDINATION SYNTHESIS FOR  
SOFTWARE SYSTEMS**

Art Group: 2122

Examiner: Unknown

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

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In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). This IDS and IDS Citation Form are being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

It is hereby stated that no item of information contained in the Information Disclosure Statement was cited in a patent office in a counterpart application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual associated with the filing or prosecution of the subject application more than three months prior to the filing of the Information Disclosure Statement.

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: October 07, 2004

  
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Gayle M. Bekish

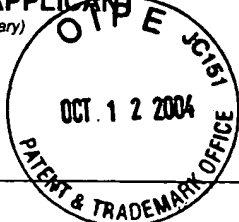
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STATEMENT BY APPLICANT**  
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Application Number	10/040,971
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Group Art Unit	2122
Examiner Name	Unknown

Sheet 1 of 3

Attorney Docket No: 42P18985

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
1	US-5,428,782 ✓	06/27/1995	White,	395	650	
2	US-5,581,691 ✓	12/03/1996	Hsu, , et al.	395	182.13	08/18/1995
3	US-5,642,478 /	06/24/1997	Chen, , et al.	395	183.21	12/13/2002
4	US-5,724,508 /	03/03/1998	Harple, Jr., , et al.	395	200.04	12/13/2002
5	US-5,794,046 ✓	08/11/1998	Meier, , et al.	395	704	06/05/1997
6	US-5,819,270 /	10/06/1998	Malone, , et al.	707	7	
7	US-5,870,588 /	02/09/1999	ROMPAEY, , et al.	395	500	10/23/1996
8	US-5,920,717 /	07/06/1999	NODA, , et al.	395	701	12/18/1996
9	US-6,038,381 /	03/14/2000	Munch, , et al.			11/25/1997
10	US-6,052,527 /	04/18/2000	DELCOURT, , et al.	395	705	02/10/1998
11	US-6,083,281 /	07/04/2000	Diec, , et al.	717	128	11/14/1997
12	US-6,125,392 ✓	09/26/2000	Labatte, , et al.	709	224	10/11/1996
13	US-6,134,676 ✓	10/17/2000	VanHuben, , et al.	714	39	04/30/1998
14	US-6,347,374 ✓	02/12/2002	Drake, , et al.	709	224	06/05/1998
15	US-6,539,501 ✓	03/25/2003	Edwards, J C.	717	128	12/16/1999

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T <sup>2</sup>
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**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	16	"COBRA Overview", (July 1995), 2-1 and 18-5	
	17	AUGUSTON, MIKHAIL, "Building program behavior models", Dept. of computer science, New Mexico State University, 19-26	
	18	BAECKER, R, et al., "Software visualization for debugging", CACM Vol. 40, No. 4, (April 1997), 44-54	
	19	BATES, P.C., "Debugging programs in a distributed system environment", Ph.D. Thesis, University of Massachusetts, Amherst, (1986),	
	20	BATES, P.C., et al., "High-level debugging of distributed systems: The behavioral abstraction approach", The journal of systems and software, Vol. 3, No. 4, (Dec. 1983), 255-264	
	21	BORCHERT, CHRISTOPHER B., "Organization and management of distributed execution event histories for real-time debugging", IEEE, 343-345	
	22	BRUEGGE, B, "A portable platform for distributed event environments", ACM/ONR Workshop on Parallel & Distributed Debugging, (1991), 184-193	
	23	BRYANT, R E., "Symbolic Boolean manipulation with ordered binary-decision diagrams", ACM Computing Surveys, (1992), 293-318	
	24	CAI, WENTONG, et al., "Graphical views of the behavior of parallel programs",	

EXAMINER

DATE CONSIDERED

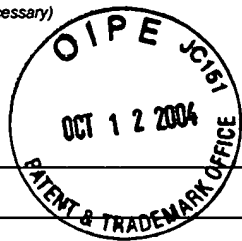
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 STATEMENT BY APPLICANT**

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Examiner Name	Unknown

Sheet 2 of 3

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**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<u>Journal of Parallel and Distributed Computing</u> , (06/18/1993),223-230	
	25	CHOU, PAI , et al., "Control generation for embedded systems based on composition of modal processes", 410-415	
	26	CHOU, PAI , et al., "IPChinook: An integrated IP-based design framework for distributed embedded systems", <u>IPChinook</u> , 44-49	
	27	CHOU, PAI H., et al., "Synthesis and optimization of coordination controllers for distributed embedded systems", 410-415	
	28	CONSENS, MARIANO P., et al., "Visualizing and querying distributed event traces with hy+", (June 1994),123-141	
	29	COOPER, R , et al., "Consistent detection of global predicates", <u>ACM/ONR workshop on parallel &amp; distributed debugging</u> , (1991),167-174	
	30	EDWARDS, STEPHEN , et al., "Design of embedded systems: Formal models, validation, and synthesis", <u>Proceedings of the IEEE</u> , Vol. 85, No. 3, (03/01/1997),366-389	
	31	FIDGE, C J., "Logical time in distributed computing systems", <u>IEEE Computer</u> , 24(8), (1991),28-33	
	32	GARGE, V K., et al., "Detection of Weak Unstable Predicates in Distributed Programs", <u>IEEE Transactions on Parallel and Distributed Systems</u> Vol. %, No. 3 March 1994, (1994),299-307	
	33	HARTER, JR., P K., et al., "IDD An interactive distributed debugger", <u>Proc. of the 5th international conference on distributed computing systems</u> , (1985),498-506	
	34	HINES, K , et al., "Debugging distributed implementations of modal process systems", <u>Lecture Notes in Computer Science</u> 1474, (1998),98-107	
	35	HODGES, W , "POSITION PAPER", <u>DARPA WORKSHOP ON MODEL-BASED METHODS FOR EMBEDDED SOFTWARE CREATION</u> , (1999),3 PAGES	
	36	KHOUZAM, M , et al., "Single stepping in event-visualization tools", <u>In processing of the 1996 CAS conference</u> , (1996),103-114	
	37	KIMELMAN, DOUG , et al., "On-the-fly topological sort- a basis for interactive debugging and live visualization of parallel programs", <u>8398 ACM Sigplan Notices</u> No. 12, New York, US, (12/28/1993),12-20	
	38	KOEHNEMANN, H , et al., "Towards target-level testing and debugging tools for embedded software", <u>Conference Proceedings on Tri-ADA '93</u> , (1993),288-298	
	39	KUNDU, J , "Integrating event- and state-based approaches to the debugging of parallel programs", <u>Ph.D. thesis, University of Massachusetts, Amherst</u> , (1996),	
	40	KUNZ, T , "Abstract behavior of distributed executions with applications to visualization", <u>Ph.D. thesis, Technische Hochschule Darmstadt, Germany</u> , (1994),	
	41	KUNZ, THOMAS , et al., "Poet: Target-System-Independent Visualizations of Complex Distributed Executions", <u>IEEE</u> , (1997),452-461	
	42	MATTERN, F , "Efficient Algorithms for Distributed Snapshots and Global Virtual Time Approximation", <u>Journal of Parallel and Distributed Computing</u> Vol 18 No 4,	

EXAMINER

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First Named Inventor Unknown

Group Art Unit 2122

Examiner Name Unknown

Sheet 3 of 3

Attorney Docket No: 42P18985

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

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		(1993),	
	43	MATTERN, F , "On the relativistic structure of logical time in distributed systems", <u>Parallel and distributed algorithms</u> , (1989),	
	44	MCMILLAN, F. , "Symbolic Model Checking: An Approach to the State Explosion Problem", <u>Ph.D Thesis, Carnegie Mellon University</u> , (1992),	
	45	NETZER, RH B., et al., "Adaptive message logging for incremental program replay", <u>IEEE Parallel and distributed technology</u> , (1993),32-39	
	46	RAJ, GOPALAN S., "A Detailed Comparison of CORBA, DCOM, and Java/RMI", (July 1995), <a href="http://gsraj.tripod.com/misc/compare">wysiwyg://402/http://gsraj.tripod.com/misc/compare</a>	
	47	RUSSELL, D L., "State restoration in systems of communicating processes", <u>IEEE Transactions of software engineering</u> , vol. SE-6, No. 2, (1980),183-194	
	48	SHENDE, S , et al., "Event and state-based debugging in TAU: a prototype", <u>Symposium on parallel and distributed tools</u> , (1996),21-30	
	49	SIDE, R S., et al., "A debugger for distributed programs", <u>Software - Practice and Experience</u> , Vol. 24(5), (1994),507-525	
	50	TAYLOR, D J., "A prototype debugger for hermes", <u>Proceedings of the 1992 CAS conference</u> , (1992),313-326	
	51	TAYLOR, D J., "Event Displays for Debugging and Managing Distributed Systems", <u>International Workshop on Network and Systems Management</u> , (1995),	
	52	TSAL, JJ P., et al., "A noninvasive architecture to monitor real-time distributed systems", <u>IEEE Computer</u> , 23, (1990),11-23	
	53	VALOT, C , "Characterizing the accuracy of distributed timestamps", <u>ACM/ONR Workshop on Parallel &amp; Distributed Debugging</u> , (1993),43-52	
	54	ZERNIK, D , et al., "Using visualization tools to understand concurrency", <u>IEEE Software</u> , 9(3), (1992),87-92	

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